Proceedings

of the

Society

for

Experimental Biology and Medicine

INCLUDING THE FOLLOWING SECTIONS

DISTRICT OF COLUMBIA NORTHWESTERN

SOUTHEASTERN SOUTHWESTERN

BEIJING, CHINA

May–September

VOLUME 185

New York

Copyright © 1987 by the Society for Experimental Biology and Medicine
All Rights Reserved

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owner.

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. (27 Congress Street, Salem, Massachusetts 01970) for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Copy fees for pre-1987 articles are as shown on the article title pages; if no fee code appears on the title page, the copy fee is the same as for current articles.

0037-9727/87 $1.50

MADE IN THE UNITED STATES OF AMERICA

Send requests for permission to reproduce items published in Proceedings of the Society for Experimental Biology and Medicine to: Dr. Mero R. Nocenti, Editor, Society for Experimental Biology and Medicine, 630 W. 168th St., New York, N.Y. 10032.

CONTENTS

SCIENTIFIC PROCEEDINGS, VOLUME 185

Seven hundred-eighty-first issue, May 1987 1

Seven hundred-eighty-second issue, June 1987 107

Seven hundred-eighty-third issue, July 1987 243

Seven hundred-eighty-fourth issue, September 1987 361

Author Index 511

Proceedings of The Society for Experimental Biology and Medicine (ISSN 0037-9727), Vol. 185, No. 4, September 1987. Published monthly except August by Academic Press, Inc., 1 East First Street, Duluth, MN 55802. Second class postage paid at Duluth, MN, and at additional mailing offices. 1987: Subscription per year $112.00 U.S.A. and Canada; $141.00 all other countries. All prices include postage and handling. Send notices of change of address to the Office of the Publishers at least 6–8 weeks in advance. Please include both the old and new addresses. POSTMASTER: Send all changes of address to Proceedings of the Society for Experimental Biology and Medicine, 1 East First Street, Duluth, MN 55802. Copyright © 1987 by the Society for Experimental Biology and Medicine.

TABLE OF CONTENTS

ANNUAL REPORT FOR 1986 505
ACKNOWLEDGMENT 507

BIOCHEMISTRY/NUTRITION

Recognition of Neuropeptides FMRFamide and LPLRFamide by Chicken Cerebellum Avian Pancreatic Polypeptide Binding Sites — K. GANESHAN, M. O. PERLMAN, J. M. PERLMAN, M. L. ADAMO, R. L. HAZELWOOD, D. F. DYCKES 409

Triiodothyronine Improves the Primary Antibody Response to Sheep Red Blood Cells in Severely Undernourished Weanling Mice — S. M. FILTEAU, K. J. PERRY, B. WOODWARD 427

CELLULAR AND ORGAN PHYSIOLOGY

Histamine Receptor Effects on Dissipation of an Intracellular Proton Gradient of Isolated Gastric Mucosal Surface Cells — E. J. OLENDER, T. FURUKAWA, D. J. WOODS, D. FROMM 377

Effects of Saliva from Chronically Reserpinized Rat on Na and K Transport in Perfused Main Excretory Duct of Submandibular Gland of Normal Rat — D. JIRAKULSOMCHOK, C. A. SCHNEYER 392

Gastrin Induction of Protein Synthesis in Isolated Gastric Mucosal Cells — A. N. MAJUMDAR, E. A. EDGERTON 396

Histochemical Characteristics of Soleus Muscle in hGH Transgenic Mice — G. A. DUDLEY, R. PORTANOVA 403

ENDOCRINOLOGY/METABOLISM

Time Course of Changes in Plasma Concentrations of the Growth Related Hormones during Protein Restriction in the Domestic Fowl (*Gallus domesticus*) — T. J. LAUTERIO, C. G. SCANES 420

Role of Atrial Natriuretic Peptide in Mineralocorticoid Escape Phenomenon in Patients with Primary Aldosteronism — T. NAKAMURA, S. ICHIKAWA, T. SAKAMAKI, K. SATO, M. KOGURE, Y. TAJIMA, T. KATO, K. MURATA 448

Fever Is Not Responsible for the Elevated Glucose Kinetics in Sepsis — C. H. LANG, G. J. BAGBY, H. L. BLAKESLEY, J. J. SPITZER 455

Evidence for the Existence of a Luteal Cell Type That Is Steroidogenic and Releases Relaxin — M. J. TAYLOR, C. L. CLARK, L. S. FRAWLEY 469

The Blood Flow to the Islets of Langerhans in Different Regions of the Rat Pancreas — L. JANSSON, C. HELLERSTRÖM 474

The Relative Binding Affinity of Diethylstilbestrol to Uterine Nuclear Estrogen Receptor: Effect of Serum and Serum Albumin — W. C. OKULICZ, L. D. JOHNSON 478

EXPERIMENTAL MEDICINE/HEMATOLOGY

Statistical Variation of Selected Clinical Pathological and Biochemical Measurements in Rodents — D. W. GAYLOR, R. L. SUBER, G. L. WOLFF, J. A. CROWELL 361

The Effect of 1,25-Dihydroxyvitamin D_3 on Hematopoiesis in Long-Term Human Bone Marrow Cultures — I. FABIAN, Y. KLETTER, I. BLEIBERG 434

HOST–PARASITE INTERACTION/IMMUNOLOGY/MICROBIOLOGY/VIROLOGY

Morphological Changes of an Inflammatory Myopathy in Rhesus Monkeys with Simian Acquired Immunodeficiency Syndrome — M. C. DALAKAS, M. GRAVELL, W. T. LONDON, G. CUNNINGHAM, J. L. SEVER 368

The Effects of a Stable Analogue of PGE_1 on the IgG Subclass Response to Particulate Bovine Tubular Basement Membrane in the Brown–Norway Rat — T. R. ULICH, R.-X. NI, G. A. GUTMAN, D. ZHOU 441

Herpes Simplex Virus: Recurrent and Nonrecurrent Strains — Y. CENTIFANTO-FITZGERALD, D. R. CALDWELL, F. YATES 484

ONCOLOGY/PATHOLOGY/RADIOBIOLOGY

Hepatic Necrosis Induced by Norepinephrine in Rabbits — J. C. Lee, G. K. Saunders, D. P. Sponenberg 462

PHARMACOLOGY/TOXICOLOGY

Potentiation of Isoproterenol-Induced Relaxation of Isolated Trachea by Aminophylline: Modulation by Desensitization — S. E. Taylor 385

Iron-Induced Accumulation of Hepatic Metallothionein: The Lack of Glucocorticoid Involvement — C. C. McCormick 413

RAPID COMMUNICATIONS

Prevention of Ethanol-Induced Vascular Injury and Gastric Mucosal Lesions by Sucralfate and Its Components: Possible Role of Endogenous Sulfhydryls — S. Szabo, A. Brown 493

Ca2+ Modulators as Antidotes to Imipramine and Neurotransmitter Toxicity — R. Trouve, G. Nahas 498

Erratum

Volume 184, Number 4, April 1987: R. M. Campbell, C. G. Scanes, "Growth Hormone Inhibition of Glucagon- and cAMP-Induced Lipolysis by Chicken Adipose Tissue *in Vitro*," pp. 456–460 504

Author Index for Volume 185 511

The Subject Index for Volume 185 will appear in the December 1987 issue as part of a cumulative index for the year 1987.